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Unit 3D

Newton's Second Law Part 2

Note-Taking Guide and Questions to Consider

Name:

Date:

Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

Objective(s):

- *Understand the different types of friction and when each type acts.*
- *Calculate the frictional force acting on objects.*

Notes:

During the video segment, use words, phrases, or drawings to take notes.

Summary:

After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"

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Answer the following.

1. **Define the force of friction in your own words.**

2. **When does static friction act between objects?**

3. **When does kinetic friction act between objects?**

4. **What are the two factors that affect the frictional force between objects?**

5. **What does the coefficient of friction between two objects indicate about how they move relative to one another?**

6. **Write the equation for the force of static friction:**

$$F_s \leq$$

7. **What does the "$\leq$" sign in the equation indicate about static friction?**

questions continued on next page

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Answer the following.

8. **Write the equation for the force of kinetic friction:**

$$F_{\kappa} =$$

9. **Define air resistance in your own words.**